

Work Order ID 145831

Thursday, June 16, 2016 10:39:30 AM

145831

Page 1

Item ID: D3290-3

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Window

Start Date: 5/2/2016 Start Qty: 8.00

8

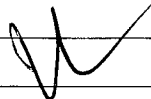
Cust Item ID:

Required Date: 5/9/2016 Req'd Qty: 8.00

8

Customer:

Reference:

Approvals: Process Plan:  Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D3290	Rev C

PR 2016/07/05

100 FLOW WATER JET 0.00

100

Waterjet

Memo

0.11

FLOW CNC Waterjet

1-Cut as per Dwg D3290 Dwg Rev: C Prog Rev: C 2-
Debur if necessary

9

110 QC2- Inspect parts off machine FAI/FAIB 0.00

110

QC

Memo

0.01

Quality Control

9 *PR 2016/07/05*

120 QC8- Inspect parts - second check 0.00

120

QC

Memo

0.03

Quality Control

(9) **DAS 38 9-89**
JUL 11 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		☐ OTHER : _____							

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Page 2

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Revision ID:

Stop ***NS2***

Item Name: Window

Start Date: 5/2/2016 Start Qty: 8.00

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Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							DAS 07 9-89
130	HAND FINISHING THERMOFORMING								16/07/14 PTO →
Thermoform	Memo	0.19							
Thermoforming Machine	Without removing protective skin remove sharp edge by deburring.								
140		0.00							DAS 07 9-89
140	THERMOFORMING MACHINE								16/07/14 PTO →
Thermoform	Memo	0.48							
Thermoforming Machine	1-THERMOFORM as per Drawing D3290 and Folio FTA001								
	Dwg. Rev. <u>C</u>								
	Folio Rev <u>C</u>								
	Visually inspect part for proper formation & texture								

DQA:

Date:

16.08.09



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date:

16/07/19

Work Order update only ☐

Work Order: <u>145831</u> Part No. <u>D 3290-3</u> NCR No. <u>16-5921</u>		DISPOSITION Rework ☐ Scrap ☒ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Cross tube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☒</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☒	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																					
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Large Fab ☐	Composite ☐	Supplier ☐																																																											
Date: <u>16-07-12</u>		Step #: <u>MO</u>		QTY Effective: <u>1</u>		MRB (QSI042) Approval <u>PD 16-07-12</u>																																																							
Description Work Order Deviation <u>Edges imprinted on edge of window.</u>				Disposition <u>Scrap 1 part.</u>		Completed By <u>DR 16/07/12</u> Lead hand / Supervisor Approval Verification <u>PD 16-07-12</u> QC / QA Coordinator Approval <u>PD 16-07-12</u>																																																							
Root Cause <table style="width:100%;"> <tr> <td>Environment ☐</td> <td>No Re-verification ☐</td> </tr> <tr> <td>Design ☐</td> <td>Operator ☐</td> </tr> <tr> <td>Doc/Data ☐</td> <td>Offset/Setup ☐</td> </tr> <tr> <td>Equip/Tooling ☐</td> <td>Supplier ☐</td> </tr> <tr> <td>Handling/Pre ☐</td> <td>Training ☐</td> </tr> <tr> <td>Material ☐</td> <td>Use for Testing ☐</td> </tr> <tr> <td>Internal Transport ☐</td> <td>Poor Information ☐</td> </tr> <tr> <td>Tribal Knowledge ☐</td> <td>Rushing ☐</td> </tr> <tr> <td>LOA ☐</td> <td>Product Improvement ☐</td> </tr> <tr> <td>Substation ☐</td> <td>Process Improvement ☐</td> </tr> <tr> <td>Past Expiry Date ☐</td> <td>☒ Manufacturing Process</td> </tr> <tr> <td>Misidentified ☐</td> <td>Past Due ☐</td> </tr> </table>				Environment ☐	No Re-verification ☐	Design ☐	Operator ☐	Doc/Data ☐	Offset/Setup ☐	Equip/Tooling ☐	Supplier ☐	Handling/Pre ☐	Training ☐	Material ☐	Use for Testing ☐	Internal Transport ☐	Poor Information ☐	Tribal Knowledge ☐	Rushing ☐	LOA ☐	Product Improvement ☐	Substation ☐	Process Improvement ☐	Past Expiry Date ☐	☒ Manufacturing Process	Misidentified ☐	Past Due ☐	FAULT CATEGORY <table style="width:100%;"> <tr> <td>☒ Temperature/Cure</td> <td>☐ Power Loss/Surge</td> <td>☐ Positioned Wrong</td> </tr> <tr> <td>☐ Set-up</td> <td>☐ Folio/Program</td> <td>☐ Outside Dimensions</td> </tr> <tr> <td>☐ BOM/Route</td> <td>☐ Grain</td> <td>☐ Over/Under tolerance</td> </tr> <tr> <td>☐ Broken/Damage/Defect</td> <td>☐ Weld</td> <td>☐ Part Incorrect</td> </tr> <tr> <td>☐ Inspection Incomplete/Unqualified</td> <td>☐ Wrong Stock Pulled</td> <td>☐ Part Lost/Missing</td> </tr> <tr> <td>☐ Contamination</td> <td>☐ Out of Sequence</td> <td>☐ Part Moved</td> </tr> <tr> <td>☐ Countersink</td> <td>☐ Off-set</td> <td>☐ Drawing</td> </tr> <tr> <td>☐ Cut Too Short</td> <td>☐ Mislabeled</td> <td>☐ Finish</td> </tr> <tr> <td>☐ Instructions Incomplete/Unclear</td> <td>☐ Fit/Function</td> <td>☐ Misread</td> </tr> <tr> <td>☐ Drill Holes</td> <td>☐ Misaligned/off center</td> <td>☐ Turning Sequence</td> </tr> </table>				☒ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing	☐ Contamination	☐ Out of Sequence	☐ Part Moved	☐ Countersink	☐ Off-set	☐ Drawing	☐ Cut Too Short	☐ Mislabeled	☐ Finish	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence
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Thursday, June 16, 2016 10:39:30 AM

145831

Page 3

Item ID: D3290-3

Accept

N900040100Setup Start ***NS1***

Revision ID:

Item Name: Window

Stop ***NS2***

Start Date: 5/2/2016 Start Qty: 8.00

8

Cust Item ID:

Required Date: 5/9/2016 Req'd Qty: 8.00

8

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
170 *170* Thermoform Thermoforming Machine	HAND FINISHING THERMOFORMING Memo 1) Water sand and buff to remove scratches if required 2) Engrave P/N "D3290-3" and B/N on lower edge. Use 0.125" high letters to maximum depth of 0.005"	0.00 0.08				8.			DAS 07 9-89 16/07/11
175 *175* QC Quality Control	QC2- Inspect parts off machine FAI/FAIB Memo NA 2016.7.12	0.00 0.01							
180 *180* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.03							⑤ 16-07-12 PD

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
190	Identify as per dwg & Stock Location: <u>Stu32</u>	0.00							
190									
Packaging	Memo	0.01							
Packaging									
						JUL 13 2016			
								DAS 6 9-89	
200	QC21- Final Inspection - Work Order Release	0.00							
200									
QC	Memo	0.13							
Quality Control									
									16/7/13 <i>[Signature]</i>

DAS
21
9-89
JUL 13 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td style="border: none;"></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Picklist Print

Thursday, June 16, 2016 10:39:30 AM

Page 1

Work Order ID: 145831

145831

Parent Item: D3290-3

D3290-3

Parent Item Name: Window

Start Date: 5/2/2016

Required Date: 5/9/2016

Start Qty: 8.00

Required Qty: 8.00

Comments:

IPP A04.08.18New issueKJ/RF
 IPP B06.05.09Ecn 798 EC IPP Rev.
 C Removed QC8 Step 160 11/04/11 DL
 IPP C 07.05.29. Thermoform in-house DL
 IPP D 07.09.28 rev C dwg EC verified by: DD
 IPP E 07.11.28 Add --Hand finish deburring DL

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MACRLICS.125		Purchased				100	sf	145.1670	3	25.26316			

MACRI ICS 125

1/8" Polycast II Sheet

PR 2016/07/05

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MAT019	145.167	
m130047	15.467	
m131524	51.7	
m132799	8.7	
m133510	5.3	
m134641	64	
1135073		

29.6

DQA: _____ Date: _____

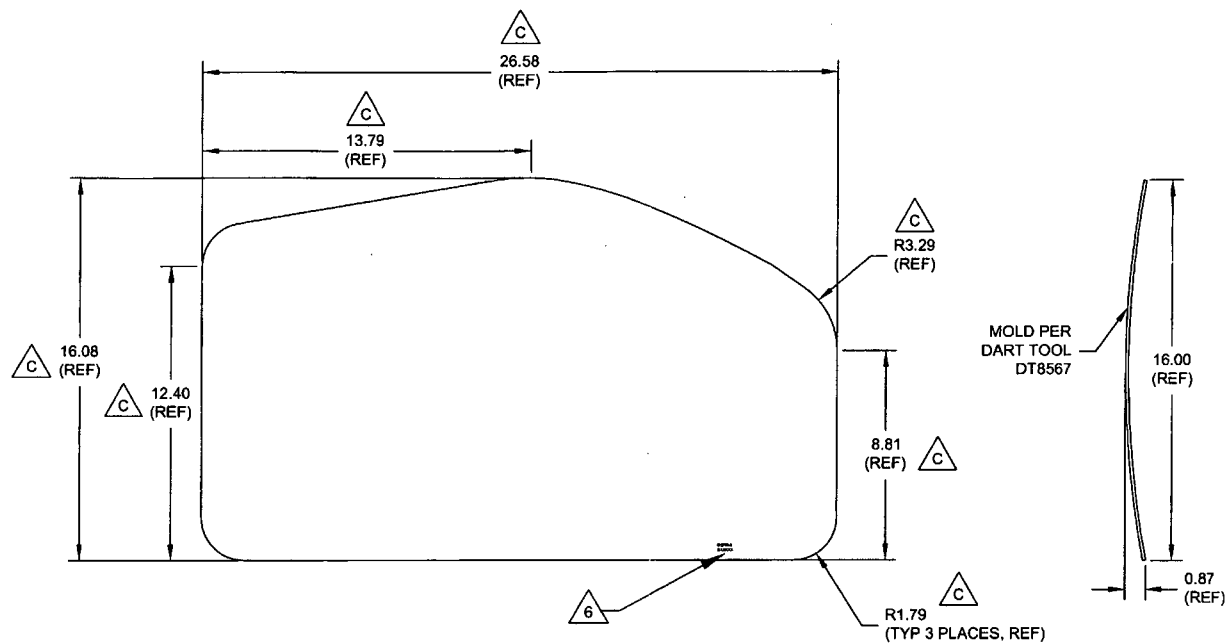


WORK ORDER NON-CONFORMANCE / UPDATE

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Misidentified ☐	Past Due ☐																																																																



D3290-3 WINDOW

D3290-3 NOTES:

- 1) MATERIAL: POLYCAST II CLEAR ACRYLIC SHEET PER MIL-P-5425
OR PLEXIGLAS G CLEAR CAST ACRYLIC SHEET PER
LP-391 TYPE 1 GRADE C, 0.125 THICK
(REF. DART SPEC. M-ACRYLIC-S.125)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) REMOVE SHARP EDGES
- 6) IDENTIFICATION: ENGRAVE P/N "D3290-3" AND B/N ON LOWER EDGE
USE 0.125" HIGH LETTERS TO MAXIMUM DEPTH OF 0.005"
- 7) WEIGHT: 1.87 +/- 0.42 LBS
- 8) MOLD PER DART TOOL DT8567

DESIGN		DART AEROSPACE LTD
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. REV. C
MFG. APPR.		D3290 SHEET 2 OF 2
APPROVED		TITLE SCALE
DE APPR.		REPLACEMENT WINDOW ASSEMBLY 1:5
DATE	07.07.24	COPYRIGHT © 2004 BY DART AEROSPACE LTD

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DART AEROSPACE LTD
HAWKESBURY, ONTARIO
160505

UNDER REVIEW
DEO ATTACHED
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07.09.22